



Information Disclosure Statement by Applicant <i>(use as many sheets as necessary)</i>				<i>Complete If Known</i>	
Sheet 1		of	9	Application Number	10/722,837
				Filing Date	November 26, 2003
				First Named Inventor	Hwang, Yean-Yow
				Art Unit	3739
				Examiner Name	Unassigned
				Attorney Docket Number	022001-000902US

U.S. PATENT DOCUMENTS+				
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	0001	US-977,825	12-06-1910	Murphy
	0002	US-3,171,549	03-02-1965	Orioff
	0003	US-3,280,991	10-25-1966	Melton et al.
	0004	US-4,058,001	11-15-1977	Waxman
	0005	US-4,128,880	12-05-1978	Cray, Jr.
	0006	US-4,221,997	09-09-1980	Flemming
	0007	US-4,367,998	01-11-1983	Causer
	0008	US-4,401,852	08-30-1983	Noso et al.
	0009	US-4,456,961	06-26-1984	Price et al.
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	0011	US-4,474,174	10-02-1984	Petruzzi
	0011	US-4,750,136	06-07-1988	Arpin
	0012	US-4,491,135	01-01-1985	Klein
	0013	US-4,503,854	03-12-1985	Jako
	0014	US-4,517,963	05-21-1985	Michel
	0015	US-4,523,884	06-18-1985	Clement et al.
	0016	US-4,586,398	05-06-1986	Yindra
	0017	US-4,604,016	08-05-1986	Joyce
	0018	US-4,616,637	10-14-1986	Caspari et al.
	0019	US-4,624,011	11-18-1986	Watanabe et al.
	0020	US-4,633,389	12-30-1986	Tanaka et al.
	0021	US-4,635,292	01-06-1987	Mori et al.
	0022	US-4,641,292	02-03-1987	Tunnell et al.
	0023	US-4,655,257	04-07-1987	Iwashita
	0024	US-4,672,963	06-16-1987	Batten
	0025	US-4,676,243	06-30-1987	Clayman
	0026	US-4,728,974	03-01-1988	Nio et al.
	0027	US-4,762,455	08-09-1988	Coughlan et al.
	0028	US-4,791,934	12-20-1988	Brunnett
	0029	US-4,791,940	12-20-1988	Hirschfeld et al..
	0030	US-4,794,912	01-03-1989	Lia
	0031	US-4,815,006	03-21-1989	Andersson et al.
	0032	US-4,815,450	03-28-1989	Patel
	0033	US-4,837,734	06-06-1989	Ichikawa et al.
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	0035	US-4,853,874	08-01-1989	Iwamoto et al.
	0036	US-4,854,301	08-08-1989	Nakajima
	0037	US-4,860,215	08-22-1989	Seraji
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	0039	US-4,883,400	11-28-1989	Kuban et al.
	0040	US-4,930,494	06-05-1990	Takehana et al.

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				Examiner Name	Unassigned
Sheet	2	of	9	Attorney Docket Number	022001-000902US

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Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	0041	US-4,945,479	07-31-1990	Rusterholz et al.
	0042	US-4,949,717	08-21-1990	Shaw
	0043	US-4,954,952	09-04-1990	Ubhayakar et al.
	0044	US-4,965,417	10-23-1990	Massie
	0045	US-4,969,709	11-13-1990	Sogawa et al.
	0046	US-4,969,890	11-13-1990	Sugita et al.
	0047	US-4,979,933	12-25-1990	Runge
	0048	US-4,979,949	12-25-1990	Matsen, III et al.
	0049	US-4,980,626	12-25-1990	Hess et al.
	0050	US-4,989,253	01-29-1991	Liang et al.
	0051	US-4,996,975	03-05-1991	Nakamura
	0052	US-5,019,968	05-28-1991	Wang et al.
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	0073	US-5,201,325	04-13-1993	McEwen et al.
	0074	US-5,201,743	04-13-1993	Haber et al.
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	0080	US-5,251,127	10-05-1993	Raab
	0081	US-5,257,999	11-02-1993	Slanetz, Jr.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/722,837
Sheet	3	of	9	Filing Date	November 26, 2003
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				Art Unit	3739
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				Attorney Docket Number	022001-000902US

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	0082	US-5,271,384	12-21-1993	McEwen et al.	
	0083	US-5,279,309	01-18-1994	Taylor et al.	
	0084	US-5,282,806	02-01-1994	Haber	
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	0091	US-5,305,203	04-19-1994	Raab	
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	0098	US-5,339,799	08-23-1994	Kami et al.	
	0099	US-5,343,385	08-30-1994	Joskowicz et al.	
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	0102	US-5,357,962	10-25-1994	Green	
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	0107	US-5,388,987	02-14-1995	Badoz et al.	
	0108	US-5,395,369	03-07-1995	McBrayer et al.	
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	0111	US-5,403,319	04-04-1995	Matsen, III et al.	
	0112	US-5,408,409	04-18-1995	Glassman et al.	
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	0115	US-5,417,701	05-23-1995	Holmes	
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	0120	US-5,445,166	08-29-1995	Taylor	
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	0122	US-5,451,924	09-19-1995	Massimino et al.	

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			Filing Date	November 26, 2003	
			First Named Inventor	Hwang, Yean-Yow	
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Sheet	4	of	9	Attorney Docket Number	
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Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	0123	US-5,455,766	10-03-1995	Scheller et al.	
	0124	US-5,458,547	10-17-1995	Teraoka et al.	
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	0142	US-5,649,956	07-22-1997	Jensen et al.	
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	0146	US-5,695,500	12-09-1997	Taylor et al.	
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	0151	US-5,735,290	04-07-1998	Sterman et al.	
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	0153	US-5,774,741	06-30-1998	Salazar, et al.	
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		Number	Kind Code ² (if known)			
	0164	US-5,807,377		09-15-1998	Madhani et al.	
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	0171	US-5,825,982		10-20-1998	Wright et al.	
	0172	US-5,836,869		11-17-1998	Kudo et al.	
	0173	US-5,844,824		12-01-1998	Newman et al.	
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	0175	US-5,859,934		01-12-1999	Green	
	0176	US-5,860,995		01-19-1999	Berkelaar	
	0177	US-5,876,325		03-02-1999	Mizuno et al.	
	0178	US-5,878,193		03-02-1999	Wang et al.	
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	0180	US-5,887,121		03-23-1999	Funda et al.	
	0181	US-5,931,832		08-03-1999	Jensen	
	0182	US-5,950,629		09-14-1999	Taylor et al.	
	0183	US-5,971,976		10-26-1999	Wang et al.	
	0184	US-6,024,695		02-15-2000	Taylor et al.	
	0185	US-6,102,850		08-15-2000	Wang et al.	
	0186	US-6,278,975		08-21-2001	Brant et al.	

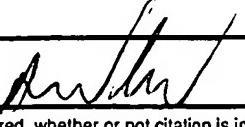
FOREIGN PATENT DOCUMENTS								
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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
	0187	DE	4310842	C2	01-25-1995	Gradowicz et al.		<input type="checkbox"/>
	0188	DE	9204118.3		07-02-1992	Zeiss		<input type="checkbox"/>
	0189	EP	0776738	A2	06-04-1997	Green		<input type="checkbox"/>
	0190	EP	0239409	A1	09-30-1987	Funakubo et al.		<input type="checkbox"/>
	0191	EP	0424687	A1	05-02-1991	Baum		<input type="checkbox"/>
	0192	WO	97/15240		05-01-1997	Brant et al.		<input type="checkbox"/>
	0193	WO	94/26167		11-24-1994	Jensen		<input type="checkbox"/>
	0194	WO	94/18881		09-01-1994	Sterman et al.		<input type="checkbox"/>
	0195	WO	92/20295		11-26-1992	Koivukangas		<input type="checkbox"/>
	0196	WO	93/13916		07-22-1993	Green		<input type="checkbox"/>
	0197	WO	91/04711		04-18-1991	Henrion et al.		<input type="checkbox"/>

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
A	0198	"A Literature Review: Robots in Medicine" (B. PREISING et al.) IEEE June 1991	
	0199	"A New Microsurgical Robot System for Corneal Transplantation" (NORIYUKI TEJIMA), Precision Machinery 1988	
	0200	"A New System for Computer Assisted Neurosurgery" (S. LAVALLEE), IEEE 1989	
	0201	"A Robot in an Operating Room: A Bull in a China Shop" (J.M. DOLAN et al.), IEEE 1987	
	0202	"An Advanced Control Micromanipulator for Surgical Applications" (BEN GAYED et al.), Systems Science Vol. 13 1987	
	0203	"Analysis of the Surgeon's Grasp for Telerobotic Surgical Manipulation" (FRANK TENDICK and LAWRENCE STARK), IEEE 1989	
	0204	"Anthropomorphic Remote Manipulator", NASA Tech Briefs 1991	
	0205	"Controlling Remote Manipulators through Kinesthetic Coupling" (A.K. BEJCZY), Computers in Mechanical Engineering 1983	
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	0207	"Force Feedback-Based Telemicromanipulation for Robot Surgery on Soft Tissues" (A.M. SABATINI et al.), IEEE 1989	
	0208	"Human/Robot Interaction via the Transfer of Power and Information Signals - Part I: Dynamics and Control Analysis" (H. KAZEROONI), IEEE 1989	
	0209	"Human/Robot Interaction via the Transfer of Power and Information Signals - Part II: An Experimental Analysis" (H. KAZEROONI), IEEE 1989	
	0210	"Kinematic Control and Visual Display of Redundant Teleoperators" (HARDI DAS et al.), IEEE 1989	
	0211	"Motion Control for a Sheep Shearing Robot" (JAMES P. TREVELYAN et al.), Proceedings of the 1st International Symposium on Robotics Research, MIT, Cambridge, Massachusetts, USA, 1983	
	0212	"On a Micro-Manipulator for Medical Application - Stability Consideration of its Bilateral Controller" (S. MAJIMA et al.), Mechatronics 1991	
✓	0213	"Power and Impedance Scaling in Bilateral Manipulation" (J. EDWARD COLGATE), IEEE 1991	

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Substitute for form 1449B/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Application Number	10/722,837
				Filing Date	November 26, 2003
				First Named Inventor	Hwang, Yean-Yow
				Art Unit	3739
				Examiner Name	Unassigned
Sheet	7	of	9	Attorney Docket Number	022001-000902US

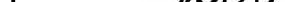
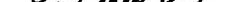
NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
Y	0214	"Properties of Master-Slave Robots" (C. Vibet), Motor-con 1987			
	0215	"Robots and Telechirs" (M.W. THRING), Wiley 1983			
	0216	"Robots for the Operating Room" (ELIZABETH CORCORAN), The New York Times, Sunday July 19, 1992, Section 3, Page 9, Column 1			
	0217	"S.M.O.S.: Stereotaxical Microtelemanipulator for Ocular Surgery" (AICHA GUERROUAD and PIERRE VIDAL), IEEE 1989			
	0218	"Six-Axis Bilateral Control of an Articulated Slave Manipulator Using a Cartesian Master Manipulator" (MASAO INOUYE), Advanced Robotics 1990			
	0219	"Surgery in Cyberspace" (TAUBES), Discover Magazine, December 1994			
	0220	"Taming the Bull: Safety in a Precise Surgical Robot" (RUSSELL H. TAYLOR et al.), IEEE 1991			
	0221	Abstract of a presentation "3-D Vision Technology Applied to Advanced Minimally Invasive Surgery Systems" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 "Session 15/3" (1 page total).			
	0222	Abstract of a presentation "A Pneumatic Controlled Sewing Device for Endoscopic Application the MIS Sewing Instrument MSI" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total).			
	0223	Abstract of a presentation "Camera Control for Laparoscopic Surgery by Speech-Recognizing Robot: Constant Attention and Better Use of Personnel" (COLIN BESANT et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total).			
	0224	Abstract of a presentation "Concept and Experimental Application of a Surgical Robotic System the Steerable MIS Instrument SMI" given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total)			
	0225	Abstract of a presentation "Design Considerations of a New Generation Endoscope Using Robotics and Computer Vision Technology" (S.M. KRISHNAN et al.) given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992 (1 page total)			
	0226	Abstract of a presentation "Telepresence: Advanced Teleoperator Technology for Minimally Invasive Surgery", (P. GREEN et al.) given at "Medicine meets virtual reality" symposium in San Diego, June 4-7, 1992 (20 pages total)			
	0227	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux, June 18-20, 1992, entitled "Session 15/1" (1 page total).			
	0228	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/2" (1 page total).			
Y	0229	Abstract of a presentation given at the 3rd World Congress of Endoscopic Surgery in Bordeaux (18 to 20 June 1992), entitled "Session 15/4" (1 page total).			

Examiner Signature		Date Considered	05/10/05
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